5

What is claimed is:

- 1. A power supply for an implantable cardioverter-defibrillator for subcutaneous positioning between the third rib and the twelfth rib and using a lead system that does not directly contact a patient's heart or reside in the intrathorasic blood vessels and for providing antibradycardia\_pacing energy to the heart, the power supply comprising:
- a capacitor subsystem for storing the anti-bradycardia pacing energy for delivery to the patient's heart; and
- a battery subsystem electrically coupled to the capacitor subsystem for providing the anti-bradycardia pacing energy to the capacitor subsystem.
- 2. The power supply of claim 1, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 500 volts.
- The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 25 volts.

- 4. The power supply of claim 2, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 25 volts to approximately 50 volts.
- 5. The power supply of claim 2 wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 50 volts to approximately 75 volts.
- 6. The power supply of claim 2, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 75 volts to approximately 100 volts.
- 7. The power supply of claim 2, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 100 volts to approximately 150 volts.
- 8. The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 150 volts to approximately 200 volts.

- 9. The power supply of claim 2, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 200 volts to approximately 250 volts.
- 10. The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 250 volts to approximately 300 volts.
- 11. The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 300 volts to approximately 350 yolts.
- 12. The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 350 volts to approximately 400 volts.
- 13. The power supply of claim 2, wherein the antibradycardia pacing energy comprises a biphasic waveform

5

having a peak voltage that is approximately 400 volts to approximately 450 volts.

- 14. The power supply of claim 2, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 450 volts to approximately 500 volts.
- 15. The power supply of claim 1, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 40 milliseconds.
- 16. The power supply of claim 15, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 10 milliseconds.
- 17. The power supply of claim 15, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 10 milliseconds to approximately 20 milliseconds.

18. The power supply of claim 15, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 20 milliseconds to approximately 30 milliseconds.

5

- 19. The power supply of claim 15, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 30 milliseconds to approximately 40 milliseconds.
- 20. The power supply of claim 1, wherein the antibradycardia pacing energy comprises a biphasic waveform further comprising a positive voltage portion and a negative voltage portion.
- 21. The power supply of claim 18, wherein the positive voltage portion further comprises a tilt of approximately 10% to approximately 90%.

20

22. The power supply of claim 19, wherein the tilt is approximately 50%.

- 23. The power supply of claim 18, wherein the negative voltage portion further comprises a tilt of approximately 10% to approximately 90%.
- 24. The power supply of claim 21, wherein the tilt is approximately 50%.
- 25. The power supply of claim 1, wherein the antibradycardia pacing energy comprises a biphasic waveform that is provided at a rate of approximately 40 to approximately 120 stimuli/minute.
- 26. The power supply of claim 25, wherein the biphasic waveform is provided after a patient's heart rate is equal or less than approximately 20 beats/minute.

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27. A voltage output system for an implantable cardioverter-defibrillator for subcutaneous positioning between the third rib and the twelfth rib and using a lead system that does not directly contact a patient's heart or reside in the intrathorasic blood vessels and for providing anti-bradycardia pacing energy to the heart, the power supply comprising:

an energy storage system for storing the antibradycardia pacing energy for delivery to the patient's heart; and

an energy source system electrically coupled to the capacitor subsystem for providing the anti-bradycardia pacing energy to the capacitor subsystem.

- 28. The voltage output system of claim 27, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 500 volts.
- 29. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 25 volts.

- 30. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 25 volts to approximately 50 volts.
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- 31. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 50 volts to approximately 75 volts.
- 32. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 75 volts to approximately 100 volts.
- 33. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 100 volts to approximately 150 volts.
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- 34. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 150 volts to approximately 200 volts.

- 35. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 200 volts to approximately 250 volts.
- 36. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 250 volts to approximately 300 volts.
- 37. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 300 volts to approximately 350 volts.
- 38. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 350 volts to approximately 400 volts.
- 39. The voltage output system of claim 28, wherein the anti-bradycardia pacing energy comprises a biphasic

waveform having a peak voltage that is approximately 400 volts to approximately 450 volts.

- 40. The voltage output system of claim 28 wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 450 volts to approximately 500 volts.
- 41. The voltage output system of claim 27, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 40 milliseconds.
- 42. The voltage output system of claim 41, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 10 milliseconds.
- 43. The voltage output system of claim 41, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 10 milliseconds to approximately 20 milliseconds.

- 44. The voltage output system of claim 41, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 20 milliseconds to approximately 30 milliseconds.
- 45. The voltage output system of claim 41, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 30 milliseconds to approximately 40 milliseconds.
- 46. The voltage output system of claim 27, wherein the anti-bradycardia pacing energy comprises a biphasic waveform further comprising a positive voltage portion and a negative voltage portion.
- 47. The voltage output system of claim 46, wherein the positive voltage portion further comprises a tilt of approximately 10% to approximately 90%.
- 48. The voltage output system of claim 47, wherein the tilt is approximately 50%.

- 49. The voltage output system of claim 46, whereing the negative voltage portion further comprises a tilt of approximately 10% to approximately 90%.
- 50. The voltage output system of claim 49, wherein the tilt is approximately 50%.
- 51. The voltage output system of claim 27, wherein the anti-bradycardia pacing energy comprises a biphasic waveform that is provided at a rate of approximately 40 to approximately 120 stimuli/minute.
- 52. The voltage of tput system of claim 51, wherein the biphasic waveform is provided after a patient's heart rate is equal or less than approximately 20 beats/minute.
- 53. An implantable cardioverter-defibrillator for subcutaneous positioning between the third rib and the twelfth rib within a patient, the implantable cardioverter-defibrillator comprising:
- a housing having an electrically conductive surface on an outer surface of the housing;
- a lead assembly electrically coupled to the housing and having an electrode, wherein the lead assembly does not

5

directly contact the patient's heart or reside in the intrathorasic blood vessels;

a capacitor subsystem located within the housing and electrically coupled to the electrically conductive surface and the electrode for storing anti-bradycardia pacing energy and for delivering the anti-bradycardia pacing energy to the patient's heart through the electrically conductive surface and the electrode; and

a battery subsystem electrically coupled to the capacitor subsystem for providing the anti-bradycardia pacing energy to the capacitor subsystem.

- 54. The implantable cardioverter-defibrillator of claim 53, wherein the amti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 500 volts.
- 55. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 25 volts.
- 56. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy

5

comprises a biphasic waveform having a peak voltage that is approximately 25 volts to approximately 50 volts.

- 57. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 50 volts to approximately 75 volts.
- 58. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 75 volts to approximately 100 volts.
- 59. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 100 volts to approximately 150 volts.
- 60. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 150 volts to approximately 200 volts.

- 5
- 61. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 200 volts to approximately 250 volts.
- 62. The implantable cardioverter defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 250 volts to approximately 300 volts.
- 63. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 300 volts to approximately 350 volts.
- 64. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 350 volts to approximately 400 volts.
- 65. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 400 volts to approximately 450 volts.

- 66. The implantable cardioverter-defibrillator of claim 54, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 450 volts to approximately 500 volts.
- 67. The implantable cardioverter-defibrillator of claim 53, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 40 milliseconds.
- 68. The implantable cardioverter-defibrillator of claim 67, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 10 milliseconds.
- 69. The implantable cardioverter-defibrillator of

  20 claim 67, wherein the anti-bradycardia pacing energy

  comprises a biphasic waveform having a pulse width that is

  approximately 10 milliseconds to approximately 20

  milliseconds.

- 70. The implantable cardioverter-defibrillator of claim 67, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 20 milliseconds to approximately 30 milliseconds.
- 71. The implantable cardioverter-defibrillator of claim 67, wherein the anti-bradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 30 milliseconds to approximately 40 milliseconds.
- 72. The implantable cardioverter-defibrillator of claim 53, wherein the anti-bradycardia pacing energy comprises a biphasic waveform further comprising a positive voltage portion and a negative voltage portion.
- 73. The implantable cardioverter-defibrillator of claim 72, wherein the positive voltage portion further comprises a tilt that is approximately 10% to approximately 90%.
- 74. The implantable cardioverter-defibrillator of claim 73, wherein the tilt is approximately 50%.

- 75. The implantable cardioverter-defibrillator of claim 72, wherein the negative voltage portion further comprises a tilt of approximately 10% to approximately 90%.
- 76. The implantable cardioverter-defibrillator of claim 75, wherein the tilt is approximately 50%.
- 77. The implantable cardioverter-defibrillator of claim 53, wherein the anti-bradycardia pacing energy comprises a biphasic waveform that is provided at a rate of approximately 40 to approximately 120 stimuli/minute.
- 78. The implantable cardioverter-defibrillator of claim 77, wherein the biphasic waveform is provided after a patient's heart rate is equal or less than approximately 20 beats/minute.

5

79. A method for supplying power for an implantable cardioverter-defibrillator for subcutaneous positioning between the third rib and the twelfth rib and using a lead system that does not directly contact a patient's heart or reside in the intrathorasic blood vessels and for providing anti-bradycardia pacing energy to the heart, the method comprising:

generating anti-bradycardia pacing energy;
storing the anti-bradycardia pacing energy; and
delivering the anti-bradycardia pacing energy to the
patient's heart.

- 80. The method of claim 79, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 500 volts.
- 81. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 5 volts to approximately 25 volts.
- 82. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform

5

having a peak voltage that is approximately 25 volts to approximately 50 volts.

- 83. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 50 volts to approximately 75 volts.
- 84. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 75 volts to approximately 100 volts.
- 85. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 100 volts to approximately 150 volts.
- 86. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 150 volts to approximately 200 volts.

- 87. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 200 volts to approximately 250 volts.
- 88. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 250 volts to

approximately 300 volts.

- 89. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 300 volts to approximately 350 volts.
- 90. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 350 volts to approximately 400 volts.
- 91/ The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 400 volts to approximately 450 volts.

- 92. The method of claim 80, wherein the antibradycardia pacing energy comprises a biphasic waveform having a peak voltage that is approximately 450 volts to approximately 500 volts.
- 93. The method of claim 70, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 40 milliseconds.
- 94. The method of claim 93, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 2 milliseconds to approximately 10 milliseconds.
- 95. The method of claim 93, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 10 milliseconds to approximately 20 milliseconds.
- 96. The method of claim 93, wherein the antibradycardia pacing energy comprises a biphasic waveform

having a pulse width that is approximately 20 milliseconds to approximately 30 milliseconds.

- 97. The method of claim 93, wherein the antibradycardia pacing energy comprises a biphasic waveform having a pulse width that is approximately 30 milliseconds to approximately 40 milliseconds.
- 98. The method of claim 79, wherein the antibradycardia pacing energy comprises a biphasic waveform further comprising a positive voltage portion and a negative voltage portion.
- 99. The method of claim 98, wherein the positive voltage portion further comprises a tilt of approximately 10% to approximately 90%.
- 100. The method of claim 99, wherein the tilt is approximately 50%.

voltage portion further comprises a tilt of approximately

10%/to approximately 90%.

- 102. The method of claim 101, wherein the tilt is approximately 50%.
- 103. The method of claim 79, wherein the antibradycardia pacing energy comprises a biphasic waveform that is provided at a rate of approximately 40 to approximately 120 stimuli/minute.
- 104. The method of claim 103, wherein the biphasic waveform is provided after a patient's heart rate is equal or less than approximately 20 beats/minute.

